

CLAIMS

1. A rotating electric machine having a magnetic circuit for high voltage, characterized by a stator (11) the winding of which comprises a high-voltage cable (1), and a rotor (9) surrounding the stator (11), the cable (1) comprising a flexible conductor surrounded by solid insulation having an inner layer with semiconducting properties, an insulating part and an outer layer with semiconducting properties.
2. A device as claimed in claim 1, characterized in that the layers are arranged to adhere to each other even when the cable is bent.
3. A machine as claimed in claim 1 or claim 2, characterized in that the rotor (9) is rigidly connected to the machine shaft (6) for out-going or in-going kinetic energy via spokes (17) extending past the stator (11).
4. A machine as claimed in claim 3, characterized in that the stator (11) is supported from below on a fixed foundation (12) and in that the rotor (9) is supported from above by spokes (8) extending over the stator (11) from the machine shaft (6).
5. A machine as claimed in claim 3, characterized in that the stator (11) is supported from above by fixed radial beams (19) and in that the rotor (9) is supported from below by spokes (8) extending below the stator (11) from the machine shaft (6).
6. A machine as claimed in claim 4 or claim 5, characterized in that the brakes (18) for the rotor are arranged on the fixed foundation (12) for friction engagement with the rotor (9).
7. A machine as claimed in any of claims 1-6, characterized in that the rotor (9) has pronounced poles (21).